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APPLICATION NO.	F	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/748,071 12/29/2003		12/29/2003	Paul A. Barsanti	19814.004	8570
27476	7590	09/15/2006		EXAMINER	
Chiron Co Intellectual		R440	SNYDER, STUART		
P.O. Box 80			ART UNIT	PAPER NUMBER	
Emeryville,	CA 9466	52-8097	1648		

DATE MAILED: 09/15/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)			
Office Action Summary		10/748,071	BARSANTI ET AL.			
		Examiner	Art Unit			
		Stuart W. Snyder	1648			
Period f	The MAILING DATE of this communication apor Reply	opears on the cover sheet w	ith the correspondence address			
WHI - Extended aftended - If N - Fail Any	HORTENED STATUTORY PERIOD FOR REPL CHEVER IS LONGER, FROM THE MAILING I ensions of time may be available under the provisions of 37 CFR 1 or SIX (6) MONTHS from the mailing date of this communication. O period for reply is specified above, the maximum statutory period ure to reply within the set or extended period for reply will, by statuder preply received by the Office later than three months after the mailined patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNI .136(a). In no event, however, may a d will apply and will expire SIX (6) MON tte, cause the application to become Al	CATION. reply be timely filed NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).			
Status						
1)🖾	Responsive to communication(s) filed on 18.	January 2005.				
2a)□	This action is <b>FINAL</b> . 2b)⊠ This action is non-final.					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under	Ex parte Quayle, 1935 C.E.	). 11, 453 O.G. 213.			
Disposit	tion of Claims					
4)🖂	Claim(s) 1-74 is/are pending in the application	n.				
	4a) Of the above claim(s) is/are withdra	awn from consideration.				
5)[	Claim(s) is/are allowed.					
-	Claim(s) is/are rejected.					
·	Claim(s) is/are objected to.					
8)⊠	Claim(s) 1-74 are subject to restriction and/or	r election requirement.				
Applicat	tion Papers					
9)	The specification is objected to by the Examin	ner.				
10)[	The drawing(s) filed on is/are: a) ac	cepted or b) objected to	by the Examiner.			
	Applicant may not request that any objection to the	=				
400	Replacement drawing sheet(s) including the corre	, , ,				
11)[	The oath or declaration is objected to by the E	examiner. Note the attached	d Office Action or form PTO-152.			
Priority	under 35 U.S.C. § 119					
-	Acknowledgment is made of a claim for foreig ☐ All b)☐ Some * c)☐ None of:	n priority under 35 U.S.C. §	§ 119(a)-(d) or (f).			
	1. Certified copies of the priority documer	nts have been received.				
	2. Certified copies of the priority documer	nts have been received in A	pplication No			
	3. Copies of the certified copies of the price	· · · · ·	received in this National Stage			
	application from the International Burea	, , , , , , , , , , , , , , , , , , , ,				
* ;	See the attached detailed Office action for a lis	st of the certified copies not	received.			
Attachme	nt(s)	,				
	ce of References Cited (PTO-892)		Summary (PTO-413) s)/Mail Date			
	ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08)		nformal Patent Application			
	er No(s)/Mail Date	6) 🔲 Other:				

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## **DETAILED ACTION**

## Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- Claims 1-3, 32-65, 72 and 74 drawn to a class of organic compounds of the general category thiosemicarbazone; classified in class 552, subclass 517.
- II. Claims 4-31, 66-71, and 73 drawn to methods of use of invention I as adjuvant, immunostimulant or antiviral therapeutic, classified in class 552, subclass 517.

Inventions I and II are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product. See MPEP § 806.05(h). In the instant case, various materials in addition to the claimed compounds and compositions have been used as adjuvants and/or immunostimulatory therapeutics. For example, McNeela and Mills recently reviewed such material; their list includes: microparticles, chitosan, monophosphoryl lipid A, saponin-lipid vesicles, CpG motifs of bacterial DNA, and cytokines. Thus, the other materials may function in lieu of the claimed invention. Because these inventions are independent or distinct for the reasons given above and there would be a serious burden on the examiner if restriction is not required because the inventions have

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acquired a separate status in the art due to their recognized divergent subject matter, restriction for examination purposes as indicated is proper.

No matter which group is elected, a further election of species is required.

This application contains claims directed to the following patentably distinct species: Claim 1 is generic to the following disclosed patentably distinct species: Thiosemicarbazones of the general formulae I (claim 2), II (claims 6), III (claim 32), IV (claim 40), V (claim 51), claim VI (claim 54), VII (claim 56), VIII (claim 58), IX (claim 63) as well as the members of the group diagramed in claim 74. The species are independent or distinct because the synthesis of each genus requires different reagents, synthetic steps and purification methods. Additionally, it is expected that each species will have different physical properties such as boiling point, melting points, solubility in water or other pharmacologically acceptable solvent, pharmacological disposition and virological effect. Applicant is required under 35 U.S.C. 121 to elect a single disclosed species with all variables defined, even though this requirement is traversed. Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which depend from or otherwise require all the limitations of an allowable generic claim as provided by 37 CFR 1.141. If claims are added after

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the election, applicant must indicate which are readable upon the elected species.

MPEP § 809.02(a).

The examiner has required restriction between product and process claims.

Where applicant elects claims directed to the product, and the product claims are subsequently found allowable, withdrawn process claims that depend from or otherwise require all the limitations of the allowable product claim will be considered for rejoinder.

All claims directed to a nonelected process invention must require all the limitations of an allowable product claim for that process invention to be rejoined.

In the event of rejoinder, the requirement for restriction between the product claims and the rejoined process claims will be withdrawn, and the rejoined process claims will be fully examined for patentability in accordance with 37 CFR 1.104. Thus, to be allowable, the rejoined claims must meet all criteria for patentability including the requirements of 35 U.S.C. 101, 102, 103 and 112. Until all claims to the elected product are found allowable, an otherwise proper restriction requirement between product claims and process claims may be maintained. Withdrawn process claims that are not commensurate in scope with an allowable product claim will not be rejoined. See MPEP § 821.04(b). Additionally, in order to retain the right to rejoinder in accordance with the above policy, applicant is advised that the process claims should be amended during prosecution to require the limitations of the product claims. Failure to do so may result in a loss of the right to rejoinder. Further, note that the prohibition against double patenting rejections of 35 U.S.C. 121 does not apply where the restriction requirement is withdrawn by the examiner before the patent issues. See MPEP § 804.01.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Stuart W. Snyder whose telephone number is (571) 272-9945. The examiner can normally be reached on 9:00 AM-5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bruce R. Campell can be reached on (571) 272-0974. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

SS

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